



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060; 2070-0057;  
2070-0107; 2070-0122; 2070-0164

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and .025 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

**DATA MATRIX**

Date: March 1, 2010	EPA Reg. No.: 432-1112	Page 1 of 4
Applicant's/Registrant's Name & Address Bayer Environmental Science P.O. Box 12014, 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Product: Permanone Tick Repellent	
Ingredient: Permethrin [CAS No. 52645-53-1]		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>Product Chemistry</b>					
63 Series	Cantalupi, D. (1996) Permanone Multi-Use Insecticide Spray: Determination of Product Chemistry: Lab Project Number: 322. Unpublished study prepared by AgrEvo Environmental Health, Inc. 15 p.	45272501	432	OWN	
830.6317, 830.6320	Norton, J. (1999) Permanone Multi-Use Insecticide Spray, EPA Reg No 4816-690, (Pfizer Low VOC Rid Lice Control Spray) Determination of Storage Stability and Corrosion Characteristics: Lab Project Number: 433. Unpublished study prepared by AgroEvo Environmental Health, 32 p.	45326401	432	OWN	
830.6317	Fairfield American Corp. (1988) Permanone Multi-Use Insecticide Spray: Storage Stability Study: 30 Month Ambient Temperature. Unpublished study. 4 p.	40620801	432	OWN	
<b>Toxicology</b>					
870.1100	Elleman, P.N.(1979) Acute Oral Toxicity in Rats: Study #0083D. (Unpublished study received under 4816-646; prepared by Cosmopolitan Safety Evaluation, Inc., CDL:246204-E)	00086667	432	OWN	
870.1100	Shapiro, R. (1989) EPA Acute Oral Toxicity Limit Test: Permanone Multi-Use Insecticide Spray: Lab Project Number: T-8843. Unpublished study prepared by Product Safety Labs. 13 p.	41758601	432	OWN	
870.1200	Elleman, P.N.(1979) Acute Dermal Toxicity Study: (Single Dose Dermal LD 50 in Rabbits: Study #0083C. Unpublished study received under 4816-646; prepared by Cosmopolitan Safety Evaluation, Inc. CDL:246204-D)	00086666	432	OWN	
870.1200	Shapiro, R. (1989) EPA Acute Dermal Toxicity Limit Test: Permanone Multi-Use Insecticide Spray: Lab Project Number: T-8846. Unpublished study prepared by Product Safety Labs. 13 p.	41758602	432	OWN	

Signature: <i>Gregory C. Mattern</i>	Name and Title: Gregory Mattern, Registration Manager	Date: March 1, 2010
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Applicant's/Registrant's Name & Address	Bayer Environmental Science P.O. Box 12014, 2 T.W. Alexander Drive Research Triangle Park, NC 27709	Product: Permanone Tick Repellent
Ingredient: Permethrin [CAS No. 52645-53-1]		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Ben-Dyke, R. (1987) Acute Inhalation--Limit Test (with Permanone Tick Repellent; Code 82680): Lab Project Number: T-6414; E61120-2. Unpublished study prepared by Product Safety Labs. 17 p.	43185101	432	OWN	
870.2400	Elleman, P.N.(1979) Primary Eye Irritation Study in Rabbits: Study #0083A. (Unpublished study received under 4816-646; prepared by Cosmopolitan Safety Evaluation, Inc., CDL:246204-B).	00086664	432	OWN	
870.2400	Shapiro, R. (1989) EPA Primary Eye Irritation: Permanone Multi-Use Insecticide Spray: Lab Project Number: T-8844. Unpublished study prepared by Product Safety Labs. 18 p.	41758603	432	OWN	
870.2500	Cerven, D. (1992) Primary Dermal Irritation in Albino Rabbits: Permanone Tick Repellent #82680: Lab Project Number: MB 92-1604 C. Unpublished study prepared by MB Research Laboratories, inc. 11 p.	42494401	432	OWN	
870.2600	Shapiro, R. (1989) EPA Guinea Pig Sensitization (Buehler): Permanone Multi-Use Insecticide Spray: Lab Project Number: T-8847. Unpublished study prepared by Product Safety Labs. 25 p.	41758606	432	OWN	
870.2600	Rosenfeld, G. (1983) Guinea Pig Sensitization Study (Buehler): [Permanone Tick Repellent, Code 826.80 (Prefill)]: Study #0783F. Unpublished study prepared by Cosmopolitan Safety Evaluation, Inc. 17 p.	00143071	432	OWN	
85-3	Snodgrass, H.; Nelson, D. (1982) Dermal Penetration and Distribution of [Carbon-14]-Labeled Permethrin Isomers. Prepared by US Army Environmental Hygiene Agency. 16 p.	00141592	432	OWN	

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Applicant's/Registrant's Name & Address  
Bayer Environmental Science  
P.O. Box 12014, 2 T.W. Alexander Drive  
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Product: Permanone Tick Repellent

Ingredient: Permethrin [CAS No. 52645-53-1]

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
85-3	Snodgrass, H.; Nelson, D. (1983) Dermal Penetration and Distribution of [Carbon-14]-labeled Permethrin Isomers: Final Report: Study No. 75-51-0351-83. Unpublished study prepared by US Army Environmental Hygiene Agency. 269 p.	00155961	432	OWN		
85-3	Bartelt, N.; Hubbell, J. (1989) Permanone Tick Repellent... Volume 2; Supplemental Toxicity Data: Percutaneous Absorption of Topically Applied Carbon-14 — permethrin in Volunteers—Final Medical Report: Lab Doc. No. THRS/86/0047; THPR/85/0096; P31/28/16/W1. Unpublished study prepared by Burroughs Wellcome in cooperation with Fairfield American Corp. 61 p.	41297801	432	OWN		
85-3	Brill, J. (1988) Permanone Tick Repellent: Volume 1: Supplemental Toxicity Data Package--Dermal Penetration & Exposure Studies...Neurotoxicity, Skin Sensitization, and Contact Summaries...: Doc. Nos. TYHK/83/0003; BKPL/81/9; TYHK/83/0004. Unpublished study prepared by Fairfield American Corp., Burroughs Wellcome Co. and U.S. Army. 155 p.	41348701	432	OWN		
	Environ Corp. (1990) Exposure Assessment to Support Use of Permanone Tick Repellent: Volume 1. Unpublished study prepared by Environ Corp. 21 p.	41686601	432	OWN		
<b>Efficacy</b>						
810.3500	Fairfield American Corporation (1981) Efficacy of Permethrin-Variou Insect Pests . (Compilation; unpublished study, including published data, received Nov 4, 1981 under 4816-646; CDL:246204-A)	00086663	432	OWN		

Signature:

*Gregory C. Mattern*

Name and Title: Gregory Mattern, Registration Manager

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Ingredient: Permethrin [CAS No. 52645-53-1]		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
810.3500	Metker, L. (1977) 21-day Wear Test with Cloth Impregnated with Permethrin: Study No. 75-51-0831-79. (Unpublished study received Nov 4, 1981 under 4816-646; submitted by Fairfield American Corp., Medina, N.Y.; CDL:246204-G)	00086669	432	OWN	
	Snodgrass, H. (1988) Migration of Permethrin from Impregnated Military Fabrics as Measured in Rabbits: Study No. 75-51-0351-87. Unpublished study prepared by US Army Environmental Hygiene Agency. 41 p.	40648201	432	OWN	
	Snodgrass, H. (1988) The Effects of Laundering on the Permethrin Content of Impregnated Military Fabrics: Study No. 75-51-0687-88. Unpublished study prepared by US Army Environmental Hygiene Agency. 51 p.	40648202	432	OWN	

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**DATA MATRIX**

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Applicant's/Registrant's Name & Address Bayer Environmental Science  
P.O. Box 12014, 2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

Product: Permanone Multi-Purpose 10% E.C.

Ingredient: Permethrin [CAS = 52645-53-1]

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
					Report Number	Description
Product – Permanone Multi-Purpose 10% E.C.						
Product Chemistry						
61 - 63 Series	Brill, J. (1989) Permanone 10 MFG Concentrate: Permanone Multi-Purpose 10% E.C., Permanone 10% E.C.: Product Chemistry. Unpublished study prepared by Fairfield American Corp. 24 p.	41217801	BES	OWN		
63-17	Fairfield American Corporation (19??) Chemistry and Properties of Permanone 10 MFG Concentrate . (Unpublished study received Oct 5, 1978 under 4816-551; CDL:235295-I)	00076592	BES	OWN	CDL:235295-I	
Toxicology						
870.1100	Shapiro, R. (1990) EPA Acute oral Toxicity Limit Test: Lab Project Number: T/020. Unpublished study prepared by Product Safety Labs. 16 p.	41628001	BES	OWN	T/020	
870.1200	Kuhn, J. (1990) Acute Dermal Toxicity Study in Rabbits: Lab Project Number: 7110/90. Unpublished study prepared by Stillmeadow, Inc. 13 p.	41628002	BES	OWN	7110/90	
870.1300	Holbert, M. (1990) Acute Inhalation Toxicity Study in Rats: Lab Project Number: 7112/90. Unpublished study prepared by Stillmeadow, Inc. 19 p.	41628003	BES	OWN	7112/90	
870.2400	Kuhn, J. (1989) Permanone Multi-Purpose 10% E.C.: Primary Eye Irritation Study in Rabbits: Laboratory Study No. 6196-89 Unpublished study prepared by Stillmeadow, Inc. 17 p.	41217802	BES	OWN	6196-89	
870.2500	Kuhn, J. (1995) Primary Dermal Irritation Study in Rabbits with RUC# 1031 (Permanone MP 10% EC): Final Report: Lab Project Number: 2272-95: T-95-126: S9-FF81-5. Unpublished study prepared by Stillmeadow, Inc. 14 p.	43895001	BES	OWN	2272-95: T-95-126	
870.2600	Kuhn, J. (1990) Dermal Sensitization Study in Guinea Pigs: Lab Project Number: 7111/90. Unpublished study prepared by Stillmeadow Inc. 19 p.	41628005	BES	OWN	7111/90	

Signature:

Name and Title: Jan Brill, Manager, Registration

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Product: Permanone Multi-Purpose 10% E.C.		
Ingredient: Permethrin [CAS = 52645-53-1]		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	
					Report Number	Description
<u>Efficacy</u>						
810.3500	Boyd, J. (1991) Effectiveness of an Insecticidal Spray Product (Pramex Insecticide E.C., 0.5% AI) as a Contact Spray Against Deer Tick, Ixodes Dammini: Lab Project Number: 10-3313-0390. Unpublished study prepared by P.A.C.E. International. 39 p.	42079201	BES	OWN	10-3313-0390	
810.3500	Boyd, J. (1991) Residual Effectiveness of an Insecticidal Spray Product (Pramex Insecticide E.C., 0.5% AI) on Two Types of Surface Material Against the Deer Tick, Ixodes Dammini: Lab Project Number: 10-3303-0290. Unpublished study prepared by P.A.C.E. International. 47 p.	42079202	BES	OWN	10-3303-0290	
810.3500	Lesiewicz, D. (1996) Permanone Aqueous Insecticide: Performance Against Cockroaches and Stored Product Beetles. Unpublished study prepared by AgrEvo Environmental Health. 6 p.	43895101	BES	OWN		
810.3500	Lesiewicz, D. (1996) Permanone Aqueous Insecticide: Performance Against Cat Fleas. Unpublished study prepared by AgrEvo Environmental Health. 5 p.	43895102	BES	OWN		
810.3500	Zhai, J. (1996) The Effect of Lawn and Garden Products in Controlling of Field Collected Ixodes scapularis and Amblyomma americanum: (Vikar Concentrate, InterCept Vegetable Spray and InterCept Rose, Flower and Ornamental Spray): Lab Project Number: US/EH95-06. Unpublished study prepared by AgrEvo Environmental Health. 7 p.	44129501	BES	OWN	US/EH95-06	
810.3500	Zhai, J. (1996) Evaluation of Residual Effects of Water-Based Insecticides Against Cat Fleas: (Deltamethrin, Tralomethrin, Vikar Concentrate, InterCept, Ford's Dursban EC and Empire 20): Lab Project Number: US/EH96-07. Unpublished study prepared by AgrEvo Environmental Health. 13 p.	44129502	BES	OWN	US/EH96-07	
810.3500	Lesiewicz, D. (1995) Efficacy of two Formulations Against Nits and Adults Human Body Lice: Lab Project Number: US/EH95-09: 01391001A002: 013-0030. Unpublished study prepared by ICR, Inc. 8 p.	44921001	BES	OWN	US/EH95-09	
810.3500	Sullivan, W.; Schechter, M. (1975) Effect of Resmethrin and Pyrethroids on Various Fly Species: Lab Project Number: FMC001.03. Unpublished study prepared by USDA-ARS. 12 p.	45876702	BES	OWN	FMC001.03	

Signature: 	Name and Title: Jan Brill, Manager, Registration	Date: August 10, 2009
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